

ABSTRACT OF THE DISCLOSURE

A process for producing tires includes sequentially producing incomplete tire structures in at least one assembly line; temporarily storing the tire structures; transferring the tire structures to at least one completion station; in the at least one completion station, forming at least one constituent tire element on each tire structure; and subjecting completed tire structures to vulcanization. Sequentially producing the incomplete tire structures includes building and shaping a carcass structure. Forming the at least one constituent tire element includes laying down at least one continuous long element of elastomer material along a predetermined path. A plant for producing tires includes the at least one assembly line, at least one storage station, and the at least one completion station. The at least one completion station includes at least one member for supplying the at least one long element and at least two units for handling incomplete tire structures.